

Introduction:

- Artificial Intelligence (AI) is reshaping medicine and, notably, the landscape of manuscript authorship.
- This abstract, guided by ChatGPT, explores the transformative role of AI in manuscript creation.
- We present an overview of recent advancements, their implications for publishing, and the vast potential they offer.
- Crucially, we delve into both the advantages and disadvantages linked to AI-driven manuscript authorship.

Methods:

Topic	AI Applications in Literature
Focus Years	2021 - 2023
Impact of AI in Literature	- Empowering unpublished authors during the COVID-19 pandemic
	- Integration of AI models like DALL-E and midjourney
	- Generation of synthetic images
AI Applications in Medicine	- Image Analysis
	- Predictive Modeling
	- Real-time Monitoring using Wearable AI devices
	- Clinical Decision Support in diagnosis and treatment decisions
	- Crafting case reports and simplifying documentation of clinical cases
Challenges in AI-Driven Authorship	- Bias towards Western common names in citations (e.g., Smith, Johnson, Brown, Jones)
	- Absence of diverse names like Patel, Khan, Lee, and Wang
	- Risk of inaccurate or incomplete data
	- Potential for redundant information in AI-generated manuscripts
	- A significant challenge
AI Citation Accuracy	- Dominance of ChatGPT in the AI market
	- Emerging tools like Scite for citation
Alternative Tools	- Rtutor for R code generation and analysis
	- AI-detection tools (Winston AI, originality AI, GPTZero) for identifying AI usage in manuscripts
	- Using alternative tools alongside ChatGPT
Need for Integration	- Developing robust AI detection mechanisms
	- Safeguarding journals from false information
	- Maintaining the integrity of scholarly publishing

*This table is created with use of chatgpt^{1,2}

Conclusion:

- In the era of AI-driven manuscript authorship, collaboration and judicious use of AI tools are paramount.
- Combining the strengths of AI systems like ChatGPT with specialized tools for citation verification and code generation can enhance the quality and reliability of manuscripts.
- Additionally, it is imperative to develop robust AI detection mechanisms to protect journals from misinformation.

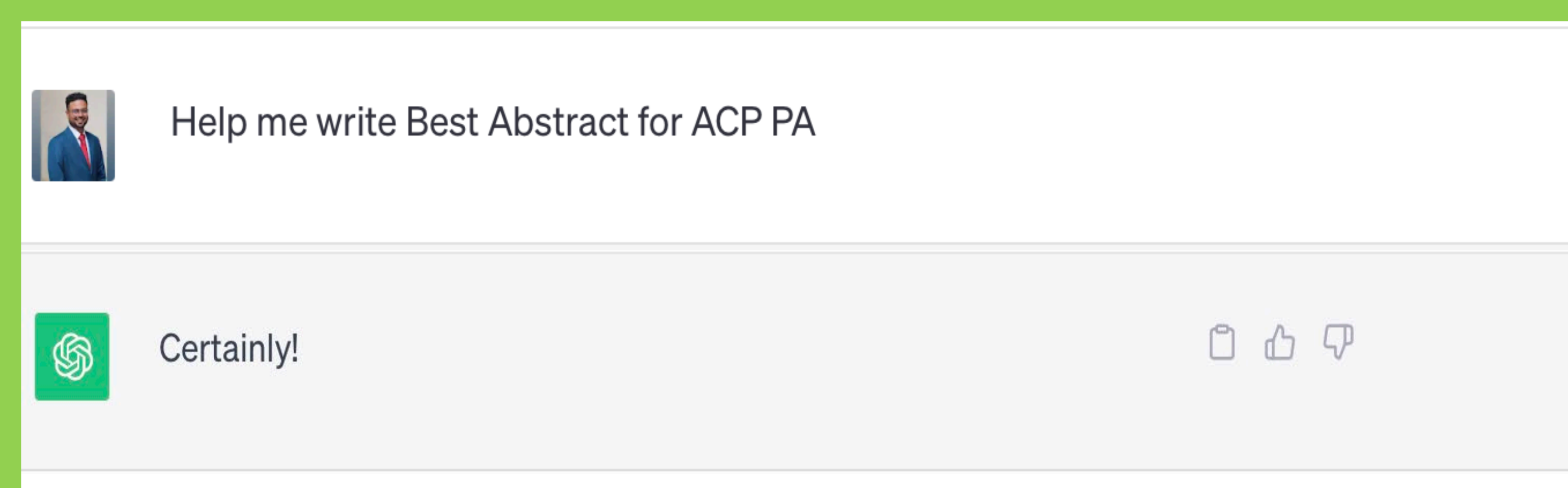
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The Impact of AI in Manuscript Authorship: Opportunities, Challenges, and the Path Forward

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¹Homolak J. Opportunities and risks of ChatGPT in medicine, science, and academic publishing: a modern Promethean dilemma. Croat Med J. 2023 Feb 28;64(1):1-3. doi: 10.3325/cmj.2023.64.1. PMID: 36864812; PMCID: PMC10028563.

²Kammer, M .A Case Study in Artificial Intelligence-Generated Manuscripts. CHEST, ISSN: 0012-3692, Vol: 164, Issue: 2, Page: 478-480